

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US04/19046

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/00; A01K 67/00; C12N 15/00  
US CL : 800:3, 8, 21

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 800:3, 8, 21

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
US provisional applicaiton 60/478,185

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
PALM, EAST, Medline

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	AN ET. AL. SKN-1 links C. elegans meendodermal specification to a conserved oxidative stress repsonse, Genes and Development, July 17, 2003 (published online) and Vol. 17, pages 1882-1893 (printed publication version), entire reference for disclosure of SKN-1 as a oxidative stress indicator in C elegans.	1-38
---		1-38
A		
X	WALKER ET. AL., A conserved transcription motif suggesting funcitonal parallels between c. elegans SKN-1 and Cap'n'collar-related basic leucine zipper proteins, JBC, July 21, 2000, Bol 275, No. 29, pages 22166-22171, entire reference for disclosure of SKN-1, vectors, protein made, and agents that interact.	15-18, 27-32
---		33-38
Y		
X	MARURO ET. AL. Restriction of mesendoderm to a single blastomere by the combined aciton of SKN-1 and a GSK-3beta homolog is mediated by MED-1 and -2 in C. elegans, Mol. Cell, March 2001, Vol. 7, pages 475-485, teaching and motivation to generate SKN-1 transgenic	33-38
---		1-32
Y		
X	BOWERMAN ET. AL., Determinants of blastomere identity in the early C. elegans embryo. Bioessays. 1995 May, Vol. 17, No.-5, pages 405-414, entire refernece for doing assays involving SKN-1 in C elegans.	15-18, 27-38
---		1-14, 19-26
Y		

☒ Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

14 September 2005 (14.09.2005)

Date of mailing of the international search report

04 NOV 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Joseph T. Weitach

Telephone No. (571) 272-1600

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US04/19046

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BLACKWELL ET. AL., Formation of a monomeric DNA binding domain by Skn-1 bZIP and homeodomain elements. Science. 1994 Oct 28, Vol. 266, No.5185, pages 621-628, entire reference for the role of SKN-1 in C. elegans.	1-38
Y	BOWERMAN ET. AL. skn-1, a maternally expressed gene required to specify the fate of ventral blastomeres in the early C. elegans embryo. Cell. 1992 Mar 20, Vol. 68, No. 6, pages 1061-1075, entire reference for teaching of SKN-1.	1-38